Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

EMB

Second and Part Bill

Measurement Sheet

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:-Providing new borewlls and CC roads, drains developments in Rachenahalli and other adjusted layout

MEASUREMENT SHEET

Second and Part BILL

Chainage From	Chainage To	Description of Item	Unit	No	Lengt (m)	Breadth B1	Breadth B2	Breadth Avg B	Dept (m)	Quantity	Rate in RS.	Amount in RS.
Item No. 01		Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer in charge										
			Cum									
		Vide Total Executed Quantity from Pre Measurement Sheet page no.								564.20		
		Tender Quantity								**882.29**		
		DPQ Quantity Paid in 1st RA Bill								**461.62**		
		Now to be Paid Quantity								**102.58**	**207.6**	**21297.00**
Item no.02		Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. and as per the directions of the Engineer in charge										
			Cum									
		Vide Total Executed Quantity from Pre Measurement Sheet page no.								76.95		
		Tender Quantity								**90.71**		
		DPQ Quantity Paid in 1st RA Bill								**59.66**		
		Now to be Paid Quantity								**17.29**	**5505.64**	**95188.00**
Item no.03		Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification and as per the directions of the Engineer in charge										
Measurements Taken On :												
		Quantity Measured in 1st RA Bill								**141.31**		
		Present Bill Measurements										
		Bottom Raft										
		Ranganilaya Opp Road										
		RHS (South Side)										
		Near Ranganilaya										
0	5.2		Cum	1	5.20	0.60	0.60	0.60	0.15	0.47		
5.2	7.3	B S Slab	Cum	1	2.10	0.60	0.60	0.60	0.15	0.19		

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Contactor PMC Assistant Engineer Assistant Executive Engineer

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MEASUREMENT SHEET

Second and Part BILL

Chainage From	Chainage To	Description of Item	Unit	No	Lengt (m)	Breadth B1	Breadth B2	Breadth Avg B	Dept (m)	Quantity	Rate in RS.	Amount in RS.
7.3	15.2		Cum	1	7.90	0.60	0.60	0.60	0.15	0.71		
		Mestripalya Cross Road-2										
		LHS (West Side)										
		From South To North										
0	14.2		Cum	1	14.20	0.65	0.65	0.65	0.15	1.38		
14.2	18.8	4.6m New Culvert	Cum	1	0.00	0.00	0.00	0.00	0.15	0.00		
18.8	41.4		Cum	1	22.60	0.65	0.65	0.65	0.15	2.20		
		Side Wall										
		Ranganilaya Opp Road										
		RHS (South Side)										
		Near Ranganilaya										
0	5.2		Cum	2	5.20	0.15	0.15	0.15	0.40	0.62		
5.2	7.3	B S Slab	Cum	2	2.10	0.15	0.15	0.15	0.40	0.25		
7.3	15.2		Cum	2	7.90	0.15	0.15	0.15	0.40	0.95		
		Mestripalya Cross Road-2										
		LHS (West Side)										
		From South To North										
0	14.2		Cum	2	14.20	0.15	0.15	0.15	0.60	2.56		
14.2	18.8	4.6m New Culvert	Cum	2	0.00	0.00	0.00	0.00	0.60	0.00		
18.8	41.4		Cum	2	22.60	0.15	0.15	0.15	0.60	4.07		
								Sub Toatl		154.71		
		For Culvert										
		Bottom Raft										
		Mestripalya Cross Road-2										
			Cum	1	4.60	1.20	1.20	1.20	0.20	1.10		
		Bharathi Cement Road										
			Cum	1	8.60	1.20	1.20	1.20	0.2	2.06		
		Rachenahalli Main Road										
			Cum	1	10.00	1.20	1.20	1.20	0.2	2.40		
		Cross Road										
			Cum	1	9.00	1.20	1.20	1.20	0.2	2.16		
		11th Main Road										
			Cum	1	6.20	1.20	1.20	1.20	0.2	1.49		

RUDRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

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MEASUREMENT SHEET

Second and Part BILL

Chainage From	Chainage To	Description of Item	Unit	No	Lengt (m)	Breadth B1	Breadth B2	Breadth Avg B	Dept (m)	Quantity	Rate in RS.	Amount in RS.
		R.K minerals Opp Road										
			Cum	1	4.10	1.20	1.20	1.20	0.2	0.98		
		Lakshmi Narasimha Swamy House opp Road										
			Cum	1	5.40	1.20	1.20	1.20	0.2	1.30		
		Govt School Road										
			Cum	1	3.40	1.20	1.20	1.20	0.2	0.82		
		Side Wall										
		Mestripalya Cross Road-2										
			Cum	2	4.60	0.20	0.20	0.20	0.35	0.64		
		Bharathi Cement Road										
			Cum	2	8.60	0.20	0.20	0.20	0.60	2.06		
		Rachenahalli Main Road										
			Cum	2	10.00	0.20	0.20	0.20	0.55	2.20		
		Cross Road										
			Cum	2	9.00	0.20	0.20	0.20	0.60	2.16		
		11th Main Road										
			Cum	2	6.20	0.20	0.20	0.20	0.60	1.49		
		R.K minerals Opp Road										
			Cum	2	4.10	0.20	0.20	0.20	0.60	0.98		
		Lakshmi Narasimha Swamy House opp Road										
			Cum	2	5.40	0.20	0.20	0.20	0.60	1.30		
		Govt School Road										
			Cum	2	3.40	0.20	0.20	0.20	0.60	0.82		
								Sub Toatl		**23.96**		
									TOTAL	**178.68**		
		Tender Quantity								**224.62**		
		DPQ Quantity Paid in 1st RA Bill								**141.31**		
		Now to be Paid Quantity								**37.37**	**7070.20**	**264200.00**

RUDRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

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MEASUREMENT SHEET

Second and Part BILL

Chainage From	Chainage To	Description of Item	Unit	No	Lengt (m)	Breadth B1	Breadth B2	Breadth Avg B	Dept (m)	Quantity	Rate in RS.	Amount in RS.
Item no.04		Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer in charge										
			Tonne									
		Vide Total Executed Quantity from Pre Measurement Sheet page no.								8.93		
		Tender Quantity								**14.11**		
		DPQ Quantity Paid in 1st RA Bill								**5.84**		
		Now to be Paid Quantity								**3.09**	**72326.98**	**223693.00**
Item no.05		Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. and as per the directions of the Engineer in charge										
Measurements Taken On :												
		Quantity Measured in 1st RA Bill								**376.83**		
		Present Bill Measurements										
		Ranganilaya Opp Road										
		RHS (South Side)										
		Near Ranganilaya										
0	5.2		Sqm	1	5.20	0.75	0.75	0.75		3.90		
5.2	7.3	B S Slab	Sqm	1	2.10	0.00	0.00	0.00		0.00		
7.3	15.2		Sqm	1	7.90	0.75	0.75	0.75		5.93		
		Mestripalya Cross Road-2										
		LHS (West Side)										
		From South To North										
0	14.2		Sqm	1	14.20	0.75	0.75	0.75		10.65		
14.2	18.8	4.6m New Culvert										
18.8	41.4		Sqm	1	22.60	0.75	0.75	0.75		16.95		
									TOTAL	**414.26**		
		Tender Quantity								**1073.97**		
		DPQ Quantity Paid in 1st RA Bill								**376.83**		
		Now to be Paid Quantity								**37.43**	**2337**	**87463.00**

RUDRAPRASAD CONSULTANTS BANGALORE

ontactor PMC Assistant Engineer Assistant Executive Engineer

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MEASUREMENT SHEET

Second and Part BILL

Chainage From	Chainage To	Description of Item	Unit	No	Lengt (m)	Breadth B1	Breadth B2	Breadth Avg B	Dept (m)	Quantity	Rate in RS.	Amount in RS.
Item no.06		Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete. and as per the directions of the Engineer in charge										
Measurements Taken On :												
		Mestripalya Cross Road-2										
			Sqm	1	4.60	1.20	1.20	1.20		5.52		
		Bharathi Cement Road										
			Sqm	1	8.60	1.50	1.50	1.50		12.90		
		Rachenahalli Main Road										
			Sqm	1	10.00	1.50	1.50	1.50		15.00		
		Cross Road										
			Sqm	1	9.00	1.50	1.50	1.50		13.50		
		11th Main Road										
			Sqm	1	6.20	1.50	1.50	1.50		9.30		
		R.K minerals Opp Road										
			Sqm	1	4.10	1.20	1.20	1.20		4.92		
		Lakshmi Narasimha Swamy House opp Road										
			Sqm	1	5.40	1.20	1.20	1.20		6.48		
		Govt School Road										
			Sqm	1	3.40	1.20	1.20	1.20		4.08		
									TOTAL	**71.70**		
		Tender Quantity								**43.20**		
		Now to be Paid Quantity								**43.20**	**5418**	**234058.00**
		Quantity Reserved For Approval of Work Slip								**28.50**		
Item no.07		Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. and as per the directions of the Engineer in charge										
			Cum									
		Vide Total Executed Quantity from Pre Measurement Sheet page no.								462.20		
		Tender Quantity								**848.38**		
		Now to be Paid Quantity								**462.20**	**1022.74**	**472709.00**

RUDRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

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MEASUREMENT SHEET

Second and Part BILL

Chainage From	Chainage To	Description of Item	Unit	No	Lengt (m)	Breadth B1	Breadth B2	Breadth Avg B	Dept (m)	Quantity	Rate in RS.	Amount in RS.
Item no.08		Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications and as per the directions of the Engineer in charge										
			Cum									
		Vide Total Executed Quantity from Pre Measurement Sheet page no.								878.49		
		Tender Quantity								**1619.20**		
		Now to be Paid Quantity								**878.49**	**56.26**	**49424.00**
Item no.09		Stone dust / Grit 4.75 mm to 0.075 mm For Road Strengthening For UGD Cut portion and as per the directions of the Engineer in charge										
			Cum									
		Vide Total Executed Quantity from Pre Measurement Sheet page no.								265.92		
		Tender Quantity								**491.46**		
		Now to be Paid Quantity								**265.92**	**1060**	**281876.00**
Item no.10		Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and as per the directions of the Engineer in charge										
			Cum									
		Vide Total Executed Quantity from Pre Measurement Sheet page no.								265.92		
		Tender Quantity								**491.46**		
		Now to be Paid Quantity								**265.92**	**2001.28**	**532181.00**
Item no.11		Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. and as per the directions of the Engineer in charge										
			Sqm									
		Vide Total Executed Quantity from Pre Measurement Sheet page no.								2310.99		
		Tender Quantity								**4241.89**		
		Now to be Paid Quantity								**2310.99**	**6.36**	**14698.00**

RUDRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

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MEASUREMENT SHEET

Second and Part BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.
Item no.12		Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. and as per the directions of the Engineer in charge										
			Cum									
		Vide Total Executed Quantity from Pre Measurement Sheet page no.								346.65		
		Tender Quantity								**636.28**		
		Now to be Paid Quantity								**346.65**	**5408.12**	**1874717.00**
Item no.13		Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications.. and as per the directions of the Engineer in charge										
Measurements Taken On :												
		Present Bill Measurements										
		Rachenahalli										
		Balaji Medical to general Store Road										
		From Balaji Medical To Aralikatte End										
0	15	A	Cum	1	15.00	8.40	9.30	8.85	0.15	19.91		
15	31.1		Cum	1	16.10	9.30	12.90	11.10	0.15	26.81		
31.1	43.3		Cum	1	12.20	12.90	9.25	11.08	0.15	20.27		

RUDRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

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MEASUREMENT SHEET

Second and Part BILL

Chainage From	Chainage To	Description of Item	Unit	No	Lengt (m)	Breadth B1	Breadth B2	Breadth Avg B	Dept (m)	Quantity	Rate in RS.	Amount in RS.
		R.K minerals Opp Road										
		From RK minerals to Lakshmi Narasimha Swami House										
0	13.7	B	Cum	1	13.70	6.80	6.50	6.65	0.15	13.67		
13.7	34		Cum	1	20.30	6.50	5.70	6.10	0.15	18.57		
34	45		Cum	1	11.00	5.70	3.55	4.63	0.15	7.63		
45	63.3		Cum	1	18.30	3.55	3.60	3.58	0.15	9.81		
63.3	64.6	Culvert Break	Cum	1	1.30	0.00	0.00		0.00	0.00		
64.6	81.5		Cum	1	16.90	3.60	4.80	4.20	0.15	10.65		
		Aralikatte Left Side Portion										
0	12.1	C	Cum	1	12.10	3.20	1.20	2.20	0.15	3.99		
		Ganesha Temple Opposite Road										
		From RK Minerals Road To Madivala Road										
0	15	D	Cum	1	15.00	3.30	3.10	3.20	0.15	7.20		
15	22.5		Cum	1	7.50	3.10	2.97	3.04	0.15	3.41		
		Madivala Road										
		From Ganesha Temple road to Dead End										
0	18.1	E	Cum	1	18.10	5.80	3.70	4.75	0.15	12.90		
18.1	25.6		Cum	1	7.50	3.70	1.70	2.70	0.15	3.04		
		Ganesha Temple Front Portion										
0	12.7	F	Cum	1	12.70	12.20	12.10	12.15	0.15	23.15		
		Lakshmi Narasimha Swamy House opp Road										
		From Lakshmi narasimha Swami House to Ranganilaya House										
0	5	G	Cum	1	5.00	3.80	2.90	3.35	0.15	2.51		
5	9.5		Cum	1	4.50	2.90	5.60	4.25	0.15	2.87		
9.5	10.8	Culvert Break	Cum	1	1.30	0.00	0.00	0.00	0.15	0.00		

RUDRAPRASAD CONSULTANTS BANGALORE

Contactor PMC

Assistant Engineer

Assistant Executive Engineer

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MEASUREMENT SHEET

Second and Part BILL

Chainage From	Chainage To	Description of Item	Unit	No	Lengt (m)	Breadth B1	Breadth B2	Breadth Avg B	Dept (m)	Quantity	Rate in RS.	Amount in RS.
10.8	25		Cum	1	14.20	3.20	3.20	3.20	0.15	6.82		
25	32.7		Cum	1	7.70	3.20	3.50	3.35	0.15	3.87		
		Ranganilaya Opp Road										
		From Ranganilaya to Honnadevi Nilaya										
0	15	H	Cum	1	15.00	5.60	3.00	4.30	0.15	9.68		
15	30		Cum	1	15.00	3.00	3.60	3.30	0.15	7.43		
30	45		Cum	1	15.00	3.60	3.30	3.45	0.15	7.76		
45	58.2		Cum	1	13.20	3.30	4.20	3.75	0.15	7.43		
		Anganavadi Kendra Opp Road										
		From Anganawadi Kendra to main Road										
0	15	I	Cum	1	15.00	4.10	3.15	3.63	0.15	8.16		
15	30		Cum	1	15.00	3.15	3.40	3.28	0.15	7.37		
30	42.7		Cum	1	12.70	3.40	3.30	3.35	0.15	6.38		
		Govt School Road										
		From Lakshminarasimha Nilaya Opp Road to Sri Kids School										
0	15	J	Cum	1	15.00	3.30	3.95	3.63	0.15	8.16		
15	30		Cum	1	15.00	3.95	4.50	4.23	0.15	9.51		
30	45		Cum	1	15.00	4.50	4.70	4.60	0.15	10.35		
45	60		Cum	1	15.00	4.70	3.90	4.30	0.15	9.68		
60	75		Cum	1	15.00	3.90	3.80	3.85	0.15	8.66		
75	90		Cum	1	15.00	3.80	3.80	3.80	0.15	8.55		
90	105		Cum	1	15.00	3.80	4.00	3.90	0.15	8.78		
105	113		Cum	1	7.70	4.00	4.10	4.05	0.15	4.68		

RUDRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

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MEASUREMENT SHEET

Second and Part BILL

Chainage From	Chainage To	Description of Item	Unit	No	Lengt (m)	Breadth B1	Breadth B2	Breadth Avg B	Dept (m)	Quantity	Rate in RS.	Amount in RS.
		Ambabavani temple Road										
		From Sri Kids School to Main Road										
0	15		Cum	1	15.00	6.20	4.10	5.15	0.15	11.59		
15	30		Cum	1	15.00	4.10	3.80	3.95	0.15	8.89		
30	39.5		Cum	1	9.50	3.80	5.40	4.60	0.15	6.56		
									TOTAL	**346.65**		
		Tender Quantity								**636.28**		
		Now to be Paid Quantity								**346.65**	**5210.96**	**1806372.00**
											Total of PWD SR 2018-19 Items	**5636355.00**
											Total of Other Items	**321521.00**
											SUB TOTAL AMOUNT	**5957876.00**
											Add KRIDL @ 4%	**238315.04**
											Add GST @ 12%	**676362.60**
											TOTAL AMOUNT	**6872553.64**

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